SMART CITIES AND URBAN ANALYTICS (RTPI PATHWAY)
MSc / 2019/20 ENTRY

www.ucl.ac.uk/graduate/
This programme is unique in its focus on the core challenges facing our increasingly 'smart' cities, from their operational functions and planning through to management and control. The programme reflects the changes that technology is making to the operation of, and our understanding of, the city, and gives students the technical and theoretical skills needed to make a difference to the planning of the cities of today and tomorrow.

**Degree summary**

Students are equipped with key quantitative practical skills including mathematical and statistical modelling, computer programming, spatial analysis and cartographic visualisation.

- The UCL Bartlett Centre for Advanced Spatial Analysis (CASA) is one of the leading research centres in the science of cities, generating new knowledge and insights for use in city planning, policy and design, and drawing on the latest geospatial methods and ideas in computer-based visualisation and modelling.
- Smart cities is a key area of future innovation and investment in the UK, and Smart Cities and Urban Analytics is currently the only UK-based Master's programme available in this area.
- Companies such as Intel, ARUP and Cisco all have strategies around smart city development, creating a demand for skilled personnel. CASA has well-established links with these companies and the Head of Department sits on the Smart London Board at the Greater London Authority to advise the Mayor of London on developments.

The technical aspects of the programme will be delivered through traditional workshops, lectures and practicals, but we will seek to incorporate novel assessment methods such as blog posts, and shared outputs such as visualisations/maps and web apps. Assessment is through a variety of written coursework assignments and final dissertation, presentation of researched material and practical investigations, and participation in dedicated skills modules.

**Accreditation**

The RTPI pathway is available to all, although only applicants who hold a first degree in planning already approved by the RTPI as the first three years of an accredited 3+1 programme will gain full RTPI accreditation at the end of this degree.

**Degree structure**

**Mode:** Full-time: 1 year; Flexible: up to 5 years
**Location:** London, Bloomsbury

Full-time students study for 37.5 hours per week during term time. Typically, lectures and seminars occur on two days per week. Flexible students normally attend half this amount.

Students undertake modules to the value of 180 credits. The programme consists of seven core modules (120 credits), and a dissertation/report (60 credits).

A Postgraduate Diploma, seven core modules (120 credits) is offered.

Please note that the list of modules given here is indicative. This information is published a long time in advance of enrolment and module content and availability is subject to change.

**COMPULSORY MODULES**

- Geographic Information Systems and Science
- Quantitative Methods
- Smart Cities: Context Policy and Government
- Urban Systems Theory
- Spatial Data Capture, Storage and Analysis
- Urban Design: Place-making
- Planning Practice

**OPTIONAL MODULES**

**DISSERTATION/REPORT**

All students undertake an independent research project which culminates in a dissertation of 10,000-12,000 words.

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Your career
This programme gives students the skills and knowledge base to embark on a professional or academic path through the highly interdisciplinary field of spatial science.

Employability
Students will graduate with an extremely broad range of new transferable practical skills including computer programming, database management, (big) data mining and web visualisation, along with an understanding of mathematical and statistical analysis methods, geographic information science, spatial analysis and urban modelling. All of these skills are developed in parallel with a wider appreciation of the problems and challenges facing planners in contemporary cities and how the latest data and analysis methods can help address them. This degree will lead to full RTPI accreditation for students already holding an RTPI accredited Bachelor’s degree from UCL or another accredited planning school, leading to a career in the UK planning system.
**Entry requirements**

Normally a minimum of a second-class UK Bachelor’s degree in an appropriate subject, or an overseas qualification of an equivalent standard. Applicants who do not hold a first degree may, but who have professional or other qualification together with at least three years of appropriate professional experience may also be admitted. In such situations, a special qualifying examination may be set; details can be obtained from the Bartlett’s Graduate Faculty Office.

Please note: only applicants who already hold a first degree in planning, already approved by the RTPI as the first three years of a 3+1 programme, will receive full RTPI accreditation on successful completion of this degree.

**English language proficiency level**

If your education has not been conducted in the English language, you will be expected to demonstrate evidence of an adequate level of English proficiency.

The level of English language proficiency for this programme is: Standard.

Information about the evidence required, acceptable qualifications and test providers is provided at: www.ucl.ac.uk/graduate/english-requirements

**Your application**

Students are advised to apply as early as possible due to competition for places. Those applying for scholarship funding (particularly overseas applicants) should take note of application deadlines.

When we assess your application we would like to learn:

- why you want to study Smart Cities and Urban Analytics: RTPI Pathway at graduate level
- why you want to study Smart Cities and Urban Analytics: RTPI Pathway at UCL
- what particularly attracts you to this programme
- how your academic and professional background meets the demands of this challenging programme
- where you would like to go professionally with your degree

Together with essential academic requirements, the personal statement is your opportunity to illustrate whether your reasons for applying to this programme match what the programme will deliver.

There is an application processing fee for this programme of £75 for online applications and £100 for paper applications. Further information can be found at: www.ucl.ac.uk/prospective-students/graduate/taught/application.

**FEES AND FUNDING 2019/20 ENTRY**

- UK: £14,610 (FT)
- EU: £14,610 (FT)
- Overseas: £26,660 (FT)

The tuition fees shown are for the year indicated above. Fees for subsequent years may increase or otherwise vary. Further information on fee status, fee increases and the fee schedule can be viewed on the UCL Students website.

Fees for flexible, modular study are charged pro-rata to the appropriate full-time Master’s fee taken in an academic session.

Full details of funding opportunities can be found on the UCL Scholarships website: www.ucl.ac.uk/scholarships

**APPLICATION DEADLINE**

All applicants: 26 July 2019

Details on how to apply are available on the website at: www.ucl.ac.uk/graduate/apply

**CONTACT**

CASA Teaching & Learning Administrator

Email: casa-teaching@ucl.ac.uk

Telephone: +44 (0)20 3108 3327

**EU referendum**

For up-to-date information relating to specific key questions following the UK’s decision to leave the EU, please refer to www.ucl.ac.uk/brexit